Files

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Files

Concept Explaination

Arrays And variables are temperory Memory so the data will be lost if program gets closed.

Why do we need files ?

To store the data permenantly .

Case 1 : Writing To A Text File

- Writing To A Text File Means Creating A Text File.
- All the previous data would be deleted and a file will be written from scratch.

Pseudocode For Writing

OPENFILE "Filename" FOR WRITE

WRITEFILE "Filename", "string"/variable

CLOSEFILE "Filename"

Question : Store all the names which are present in an Array with 700 elements

school

Question : Store all the names which are present in an Array with 700 elements into a new file

```
Declare index : string
Declare name : string
.
OPENFILE "Names.txt" FOR WRITE
FOR index = 1 to 700
    name = school[index]
    WriteFile "Names.txt", name
ENDFOR
CLOSEFILE "Names.txt")
```

CASE 2 : READING FROM A FILE

Whenever you want to search something from an existing file we use "For Read"

PSEUDOCODE FOR READING

```
OPENFILE "Filename" FOR READ
READFILE "Filename", variable        reads a line and stores all the data in variable
CLOSEFILE "Filename"
```

Question . There is an existing file known as sample.txt, print all of its content and it contains 500 lines

```
OpenFile "Sample.txt" For Read
For Lines = 1 to 500
    ReadFile "Sample.txt", Filedata
    Print Filedata
EndFor
CloseFile
```

Case 3: Appending To A File

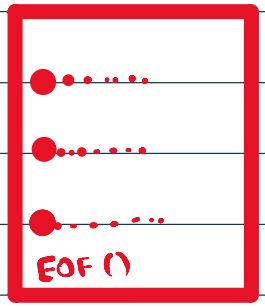
- Sometimes we may wish to add data to an exsiting file rather than creating a new file.
- It adds the new data to the end of existing file.

Pseudocode For Appending

```
OpenFile "Filename" For Append
WriteFile "Filename", "stringvalue"/variable
CloseFile "Filename"
```

Concept Of EOF

If you want to read a file from begining to end and you don't know how much lines one file contains we can use a conditional loop.



. Text files contains a special marker at the end of the file that we can test for.

Question : Read a file Sample.txt and print all of its content.

```
OpenFile "Sample.txt" For Read
While NOT EOF ("sample.txt")
    Readfile "sample.txt", Filedata
    print Filedata.
EndWhile
CloseFile "Sample.txt"
```

They Should Solve

- There is a music file and it contain data about CD on each line

Formal is : Title ARTISTNAME Location

40 characters 40 characters 8 character.

E.g : Kind of Green | Miles Coltrane | Rack 3-23

Title | Artist Name | Location

User will input location and you have to search that location and then print the title and artist name and how many CD's are related to that location with suitable message.

```
Total = 0
Openfile "Mymusic" For Read
print "Input location"
Input CDSEARCH

While NOT EOF (Mymusic)
    Readfile ("Mymusic"), filedata.
    IF RIGHT( Filedata, 8) = CDSEARCH
        Then
            CDTitle = Left ( Filedata, 40)
```

```
Then
    CDTitle = Left ( Filedata ,40)
    CD-Artist = Mid ( Filedata ,41,40)
    Print (CDTitle & " " & CDARTIST)
    Totatal = Total +1
ENDIF
ENDWHILE
Print (total & "CD's Found")
Closefile "Mymusicc
```